

AMENDMENTS TO SPECIFICATION

Please replace the Abstract of Disclosure with the following Abstract of Disclosure.

A method is provided for ~~directly~~ providing a wireless application protocol (WAP) service ~~for wireless Internet in an actual~~ which a content provider (or a WAP server) server on the Internet performs data processing at a wireless datagram protocol (WDP) layer and higher layers. ~~, instead of using the relay server of a mobile business company providing a communications channel between a mobile communications network and the Internet, is provided. In the method, a content server on the Internet performs data processing at a wireless datagram protocol (WDP) layer and higher layers. The method includes the steps of (a) the~~ The content server receiving a user's ~~receives a WAP request message for a wireless Internet service from a WAP terminal connected to a mobile communications network, the request message being based on a WAP; (b) processing~~ processes the request message received in the step (a) based on the WAP; and (c) constructing ~~constructs and transmits to the WAP terminal a response message based on the WAP to reply to the user's request for wireless Internet service and transmitting the response message to the WAP terminal. Here, a~~ A relay providing a communications channel between the mobile communications network and the Internet relays the request message transmitted in the step (a) and the response message transmitted in the step (c) at a layer below the WDP layer such that the request message is transferred to the content server, and the response message is transferred to the WAP terminal. According to the method ~~Accordingly, the relay of a mobile business company providing a communications channel between the mobile communications network and the Internet performs only a relay function at the layer below a WDP layer in the WAP, and an~~

AMENDMENT UNDER 37 C.F.R. §1.111

U.S. Application No. 09/801,060

Q62787

actual content provider or a WAP server ~~on the Internet~~ performs data processing at the WDP layer and ~~the higher layers, in order to provide the WAP service for a wireless Internet service.~~

~~Therefore, an open solution for authentic wireless Internet can be realized.~~